

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202441058464 A

(19) INDIA

(22) Date of filing of Application :01/08/2024

(43) Publication Date : 16/08/2024

(54) Title of the invention : GABION REINFORCED RUBBLE MOUND BREAKWATER FOR TSUNAMI MITIGATION AND METHOD THEREOF

(51) International classification :E02B0003060000, E02B0003120000, E02D0029020000, E02B0003040000, E02B0003140000

(86) International Application No :NA  
Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA  
Filing Date :NA

(62) Divisional to Application Number :NA  
Filing Date :NA

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(57) Abstract :

A gabion reinforced rubble mound breakwater (100) for tsunami mitigation on coastal infrastructure and method thereof is disclosed. The breakwater (100) includes one or more gabions (102), and a crown wall with a shear key (110). The one or more gabions (102) are configured to be placed as a replacement of armour layers on a seaside (104) and a harbour side (106) slopes of a rubble mound breakwater (108). The gabions (102) are laid on either side of slopes of the rubble mound breakwater (108). The crown wall with a shear key (110) at bottom is placed above the core layer of the rubble mound breakwater (108). The one or more gabions (102) and the crown wall with shear key (110) collectively reinforce the gabion rubble mound breakwater (108) for reducing a risk of damage and to withstand an impact of tsunamis on the coastal infrastructure. <

No. of Pages : 21 No. of Claims : 9